

A New Species of the Genus *Entelecara* (Araneae:
Linyphiidae) from Iriomotejima Island,
Southwest Japan

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田副幸子¹⁾: 西表島産 *Entelecara* 属の 1 新種

Abstract A new spider species, *Entelecara tanikawai* (Linyphiidae), is described on the basis of the materials obtained from Iriomotejima Island, Okinawa Pref., Southwest Japan.

In Japan, only one species, *Entelecara dabudongensis* PAIK, 1983, has been known under the genus *Entelecara* (Linyphiidae) up to the present (SAITO, 1987). However, after an examination of the spider materials collected by Akio TANIKAWA from Iriomotejima Island, Okinawa Pref., Southwest Japan, I recognized a new species of the genus occurring in the island. It will be described in the present paper.

All the type specimens designated in this paper are deposited in the collection of the National Science Museum (Nat. Hist.), Tokyo.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye; AME, anterior median eye; PLE, posterior lateral eye; PME, posterior median eye; BM, British Museum of Natural History; NSMT, National Science Museum (Nat. Hist.), Tokyo.

Before going further, I wish to express my hearty thanks to Mr. Akio TANIKAWA, for his guidance and offering the specimens used in this study. I am deeply indebted to Dr. Paul HILLYARD, British Museum of Natural History, London, for loaning invaluable specimens, and to Dr. Hirotsugu ONO, National Science Museum (Nat. Hist.), Tokyo, for revising the manuscript of this paper.

Entelecara tanikawai sp. nov.

(Figs. 1–11)

Specimens examined. Type series. Holotype: ♂, Urauchi, Iriomotejima Island, Okinawa Pref., Southwest Japan, 1–IV–1987, A. TANIKAWA leg. (NSMT–Ar 3031). Paratypes: 1♀, Komi, Iriomotejima Island, 30–XII–1985 (NSMT–Ar 3032); 1♂, 24–VIII–1987 (NSMT–Ar 3033), 1♂, 31–XII–1988 (NSMT–Ar 3034), 2♀♀, 29–III–1989 (NSMT–Ar 3035), Urauchi Iriomotejima Island; 1♀, 29–IV–1990 (NSMT–

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Table 1. Measurement of leg segments of *Entelecara tanikawai* sp. nov.
(in mm; ♂/♀).

Leg	Tarsus	Metatarsus	Tibia+Patella	Femur	Total
I	0.31/0.29	0.39/0.46	0.62/0.61	0.55/0.58	1.87/1.94
II	0.29/0.29	0.42/0.41	0.62/0.55	0.52/0.58	1.85/1.83
III	0.26/0.26	0.36/0.32	0.47/0.49	0.52/0.49	1.61/1.56
IV	0.29/0.29	0.52/0.44	0.60/0.67	0.57/0.61	1.98/2.01

Ar 3036), Uehara, Iriomotejima Island; 1♂ 2♀♀, Takana, Iriomotejima Island, 7-I-1991 (NSMT-Ar 3037), A. TANIKAWA leg.

Specimens examined for comparison. *Entelecara errata* O. P. -CAMBRIDGE, 1913: 1♂ 1♀, Carneddau, N. Wales, 9-V-1972, A. R. JACKSON leg. (BM 1972. 519; Figs. 7-8). *Entelecara erythropus* (WESTRING, 1851): 9♀♀, Beckenham, 11-III-1957, D. J. CLARK leg. (BM; Fig. 11). *Entelecara omissa* O. P. -CAMBRIDGE, 1902: 2♂♂ 7♀♀, Wicken Fen., Cambridge, 12-V-1927, W. FALCOGER leg. (BM 1936. 12. 4. 103-111; Figs. 9-10).

Description. Measurement (in mm). Body length ♂ 1.40-1.53, ♀ 1.45-1.65; carapace length ♂ 0.55-0.60, ♀ 0.49-0.61, width ♂ 0.44-0.50, ♀ 0.49-0.58; abdomen length ♂ 0.88, ♀ 0.87-1.02, width ♂ 0.55-0.57, ♀ 0.61-0.87. Length of legs of the holotype ♂ and the paratype 1♀ from Iriomotejima Island as shown in Table 1.

Male. Carapace yellowish brown. Head roundly elevated, with sulci running backwards from PLEs. AMEs separated from each other by a little shorter than the radius. ALE about 1.5 times the diameter of AME, separated from AME by about the radius of AME. PME about the diameter of AME, separated from PLE by the diameter of AME. Chelicera with 4 promarginal and 3 small retromarginal teeth. Sternum yellowish brown, roundly heart-shaped. Legs yellowish brown, tibiae I, II with two dorsal spines and tibiae III, IV with one dorsal spine respectively. Tm I 0.57-0.67, Tm IV absent. Male palp as shown in Fig. 4. Abdomen pale yellow, oval.

Female. Similar to male in color. Head not elevated and without sulci. Epigynum as shown in Fig. 5.

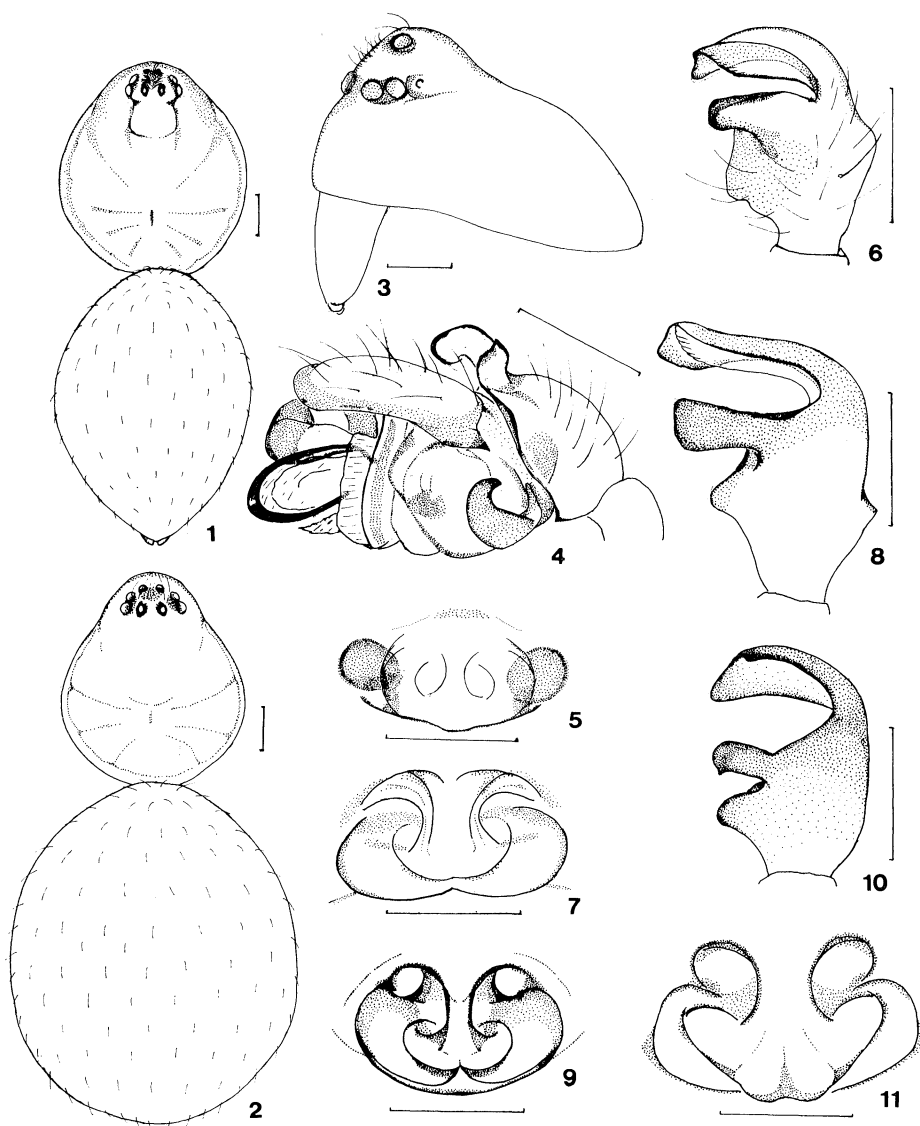
Range. Japan (Iriomotejima Island).

Remarks. This new species closely resembles *Entelecara errata* O. P. -CAMBRIDGE, 1913, but can be separated from the latter by the shape of the epigynum and the male palpal tibia. This new species also resembles *E. omissa* O. P. -CAMBRIDGE, 1902, *E. erythropus* (WESTRING, 1851) and *E. media* KULCZYŃSKI, 1887, but can be distinguished from *E. omissa* by the shape of palpal tibia, from *E. erythropus* by the shape of palpal tibia, the epigynum and the absence of Tm IV, and from *E. media* by the shape of palpal tibia and the absence of Tm IV, respectively.

Etymology. Named after Mr. Akio TANIKAWA, Yokohama.

摘 要

西表島から採集された標本に基づき *Entelecara* 属の1新種を *Entelecara tanikawai* イリオモテヌカグモ (新称) と命名して記載した。



Figs. 1-11. 1-6. *Entelecara tanikawai* sp. nov.: 1. Cephalothorax and abdomen of male, dorsal view. 2. Cephalothorax and abdomen of female, dorsal view. 3. Male cephalothorax, lateral view. 4. Male palp, retrolateral view. 5. Epigynum. 6. Tibia of male palp, dorsal view.—7-8. *E. errata* O. P.-CAMBRIDGE: 7. Epigynum. 8. Tibia of male palp, dorsal view.—9-10. *E. omissa* O. P.-CAMBRIDGE: 9. Epigynum. 10. Tibia of male palp, dorsal view.—11. *E. erythropus* (WESTRING, 1851): Epigynum. (Scales: 0.1 mm.)

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